



權億科技股份有限公司  
Master Wave Technology Co., Ltd.

## 承認書

### APPROVAL SHEET

Customers: Pepwave Ltd.

Customer Model No.:

Master Wave Model No.: 98614PRSX000

Product Description: 8614 Replacement Ant.

Issue Date: 2017/5/3

REV.: 00

客戶承認用印		權億承認用印	
			
核准 Approve	主管 Chief	承辦 Responsible	
Hero	Matt	Mango	

#### MASTER WAVE TECHNOLOGY CO., LTD.

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#### Shengyih Electronic Plastic Co. Ltd (Shou Zhou)

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#### Shengyih Electronic Plastic Manufactory (Dongguan)

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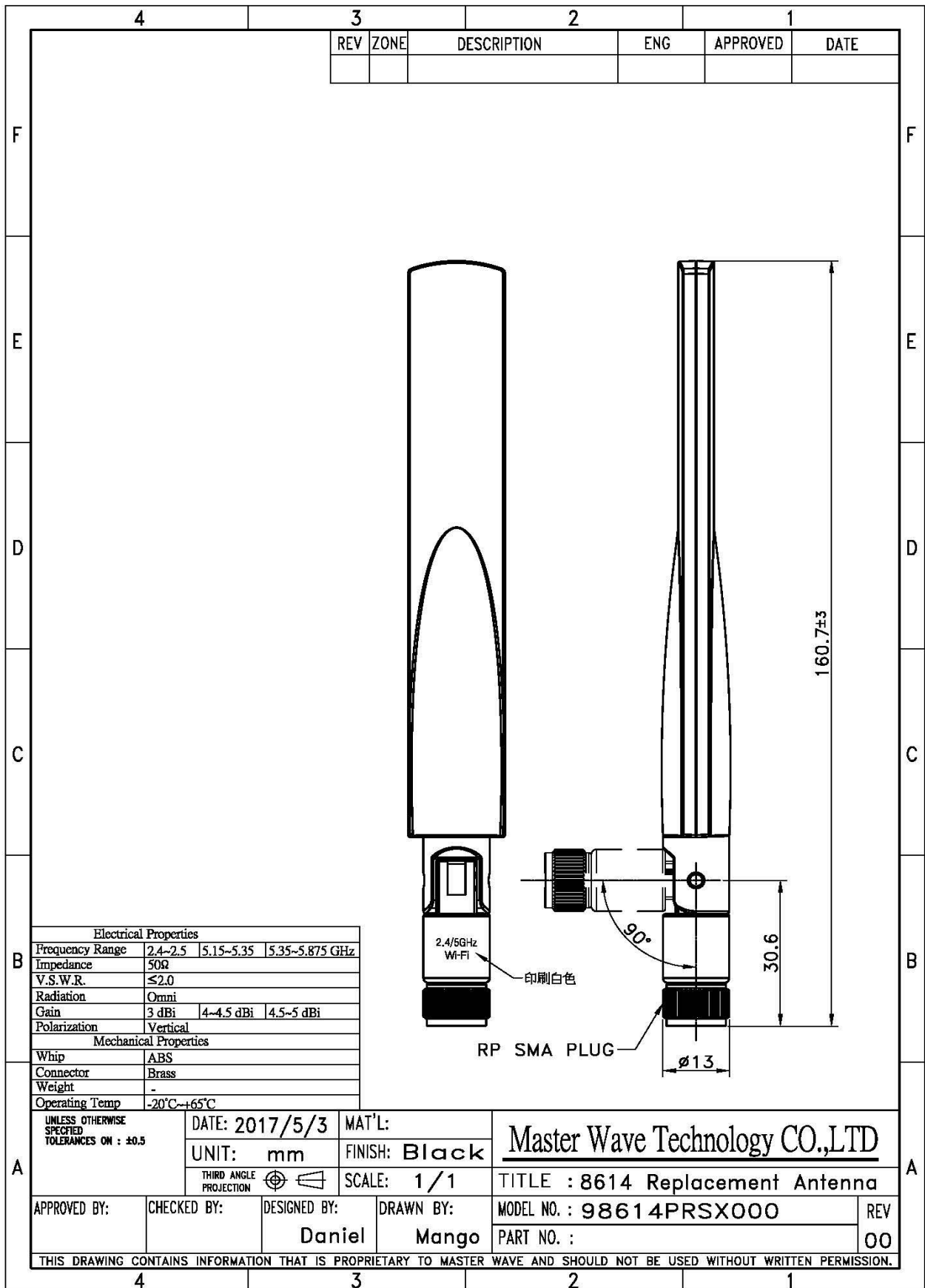
#### 4. Packing

-PE Bag  
-Carton

### Modification History:

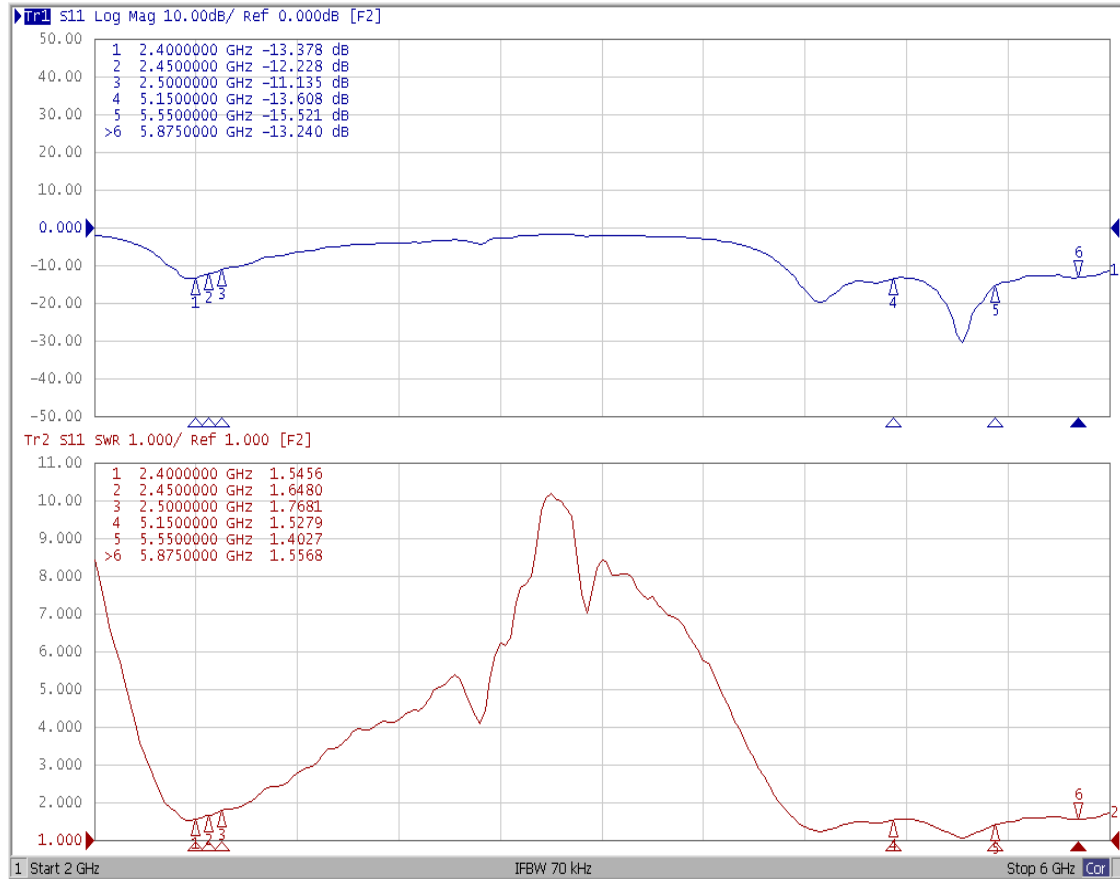
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REV.	Date	Content
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## Electrical Test





## Antenna Efficiency

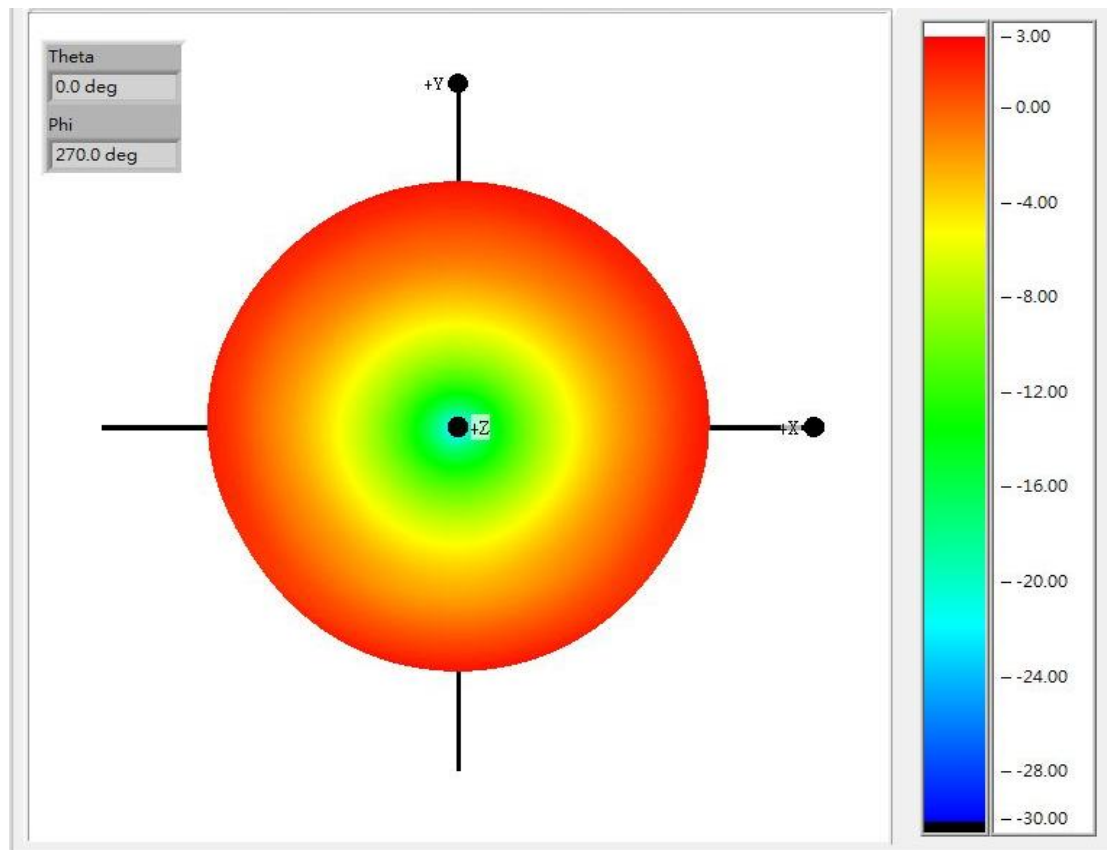
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<b>Frequency (MHz)</b>	2400	2450	2500	5150	5550	5875
<b>Peak Gain (dBi)</b>	2.44	2.15	2.21	4.10	4.41	4.73
<b>Efficiency (%)</b>	75.6	74.51	73.14	62.21	60.56	64.57

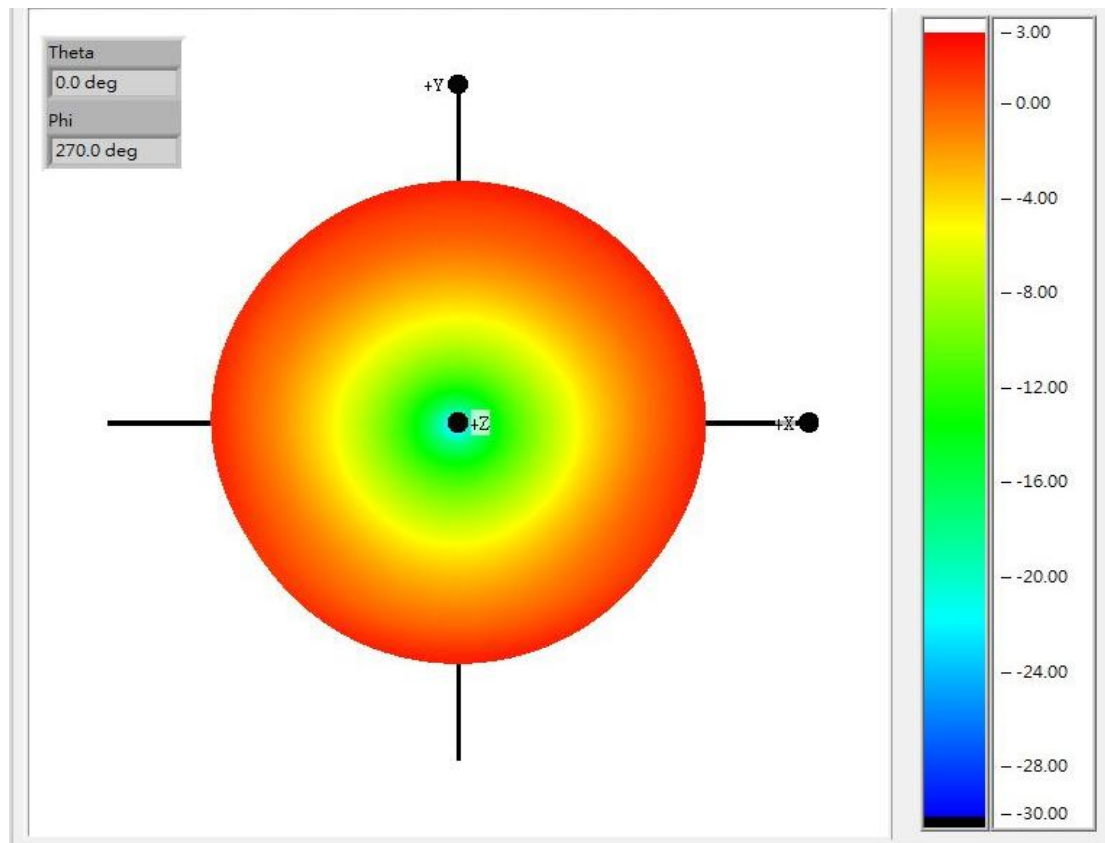


## 3D Radiation Pattern 2.4 GHz



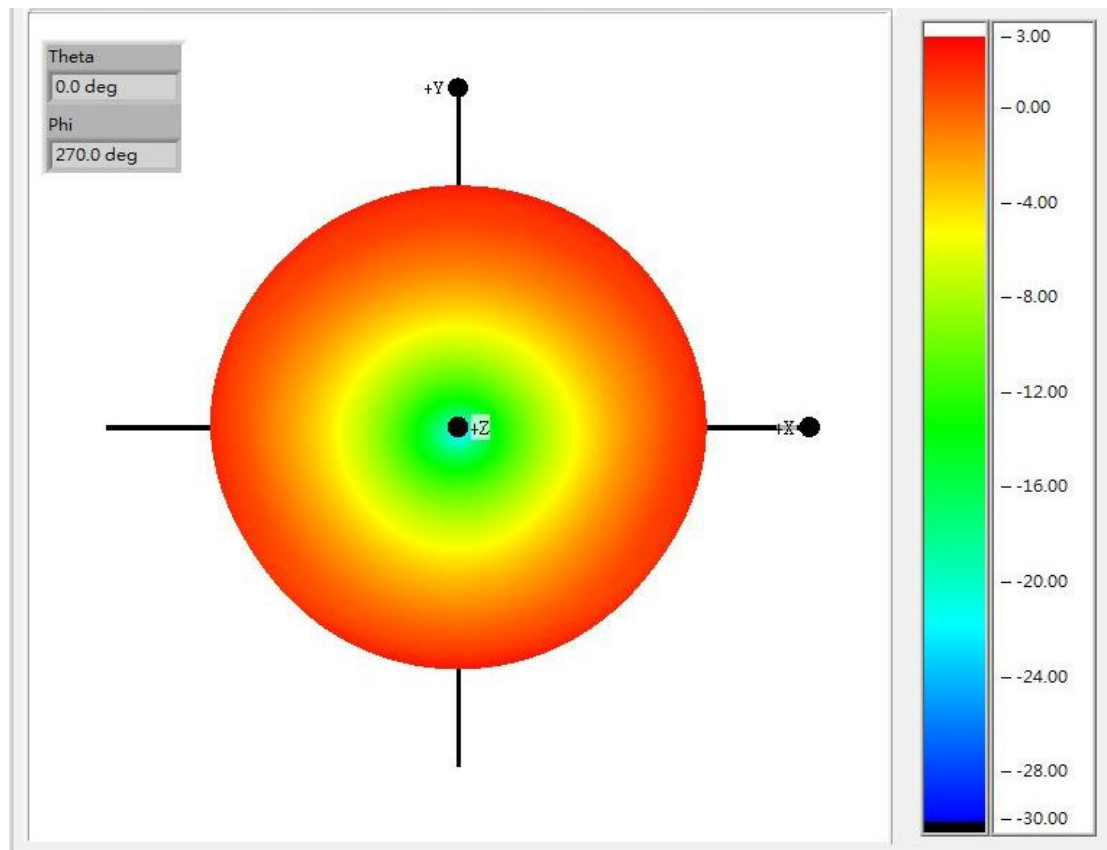


## 3D Radiation Pattern 2.45 GHz





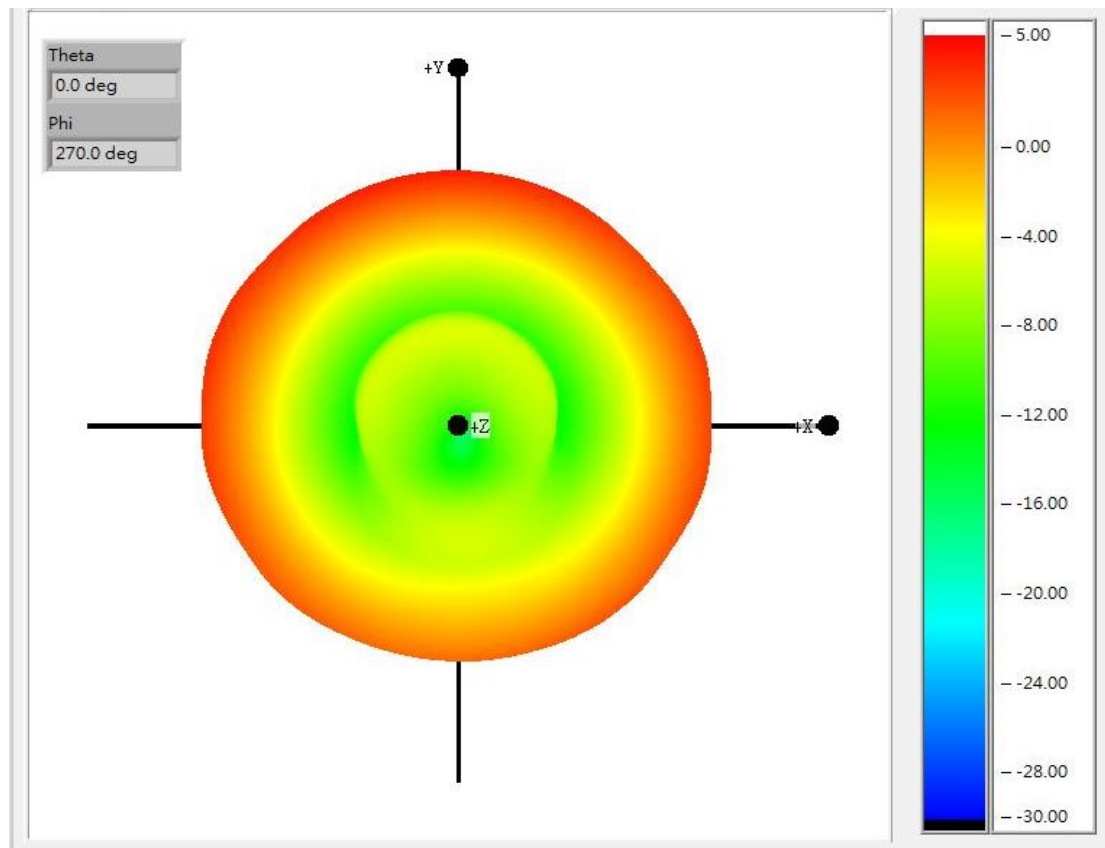
## 3D Radiation Pattern 2.5 GHz





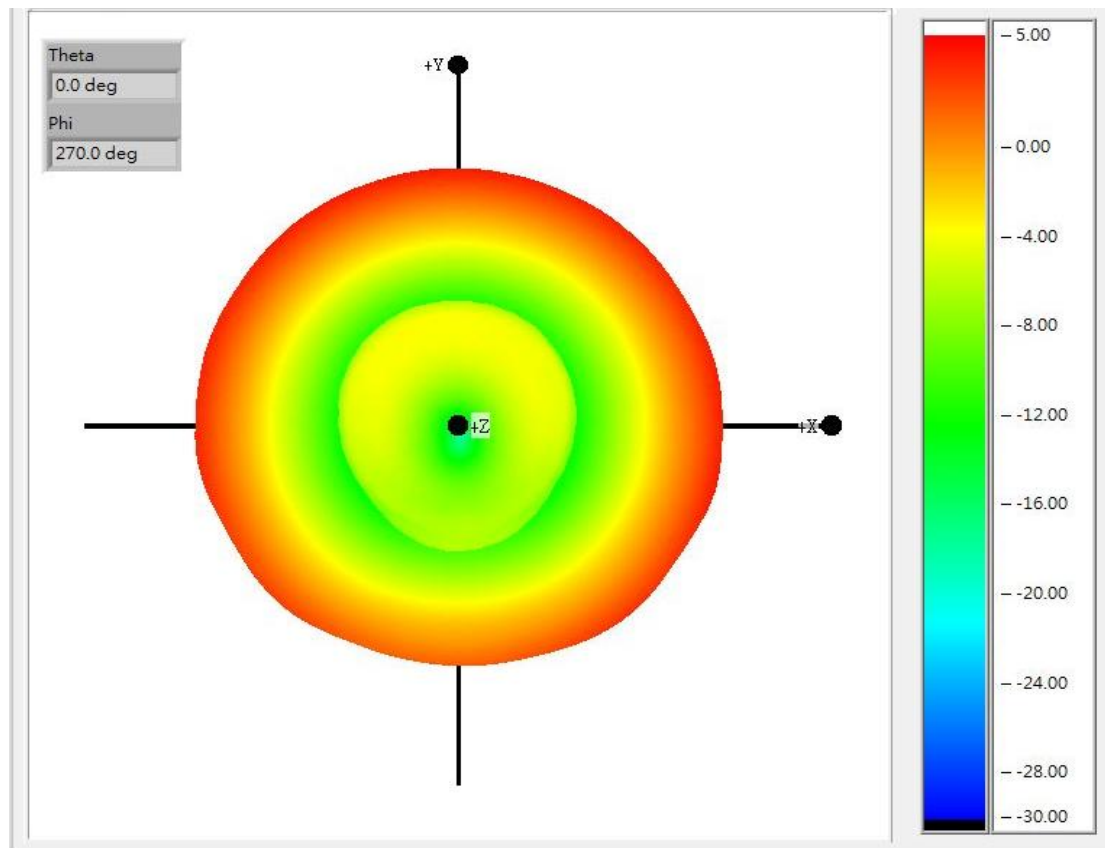


## 3D Radiation Pattern 5.15 GHz



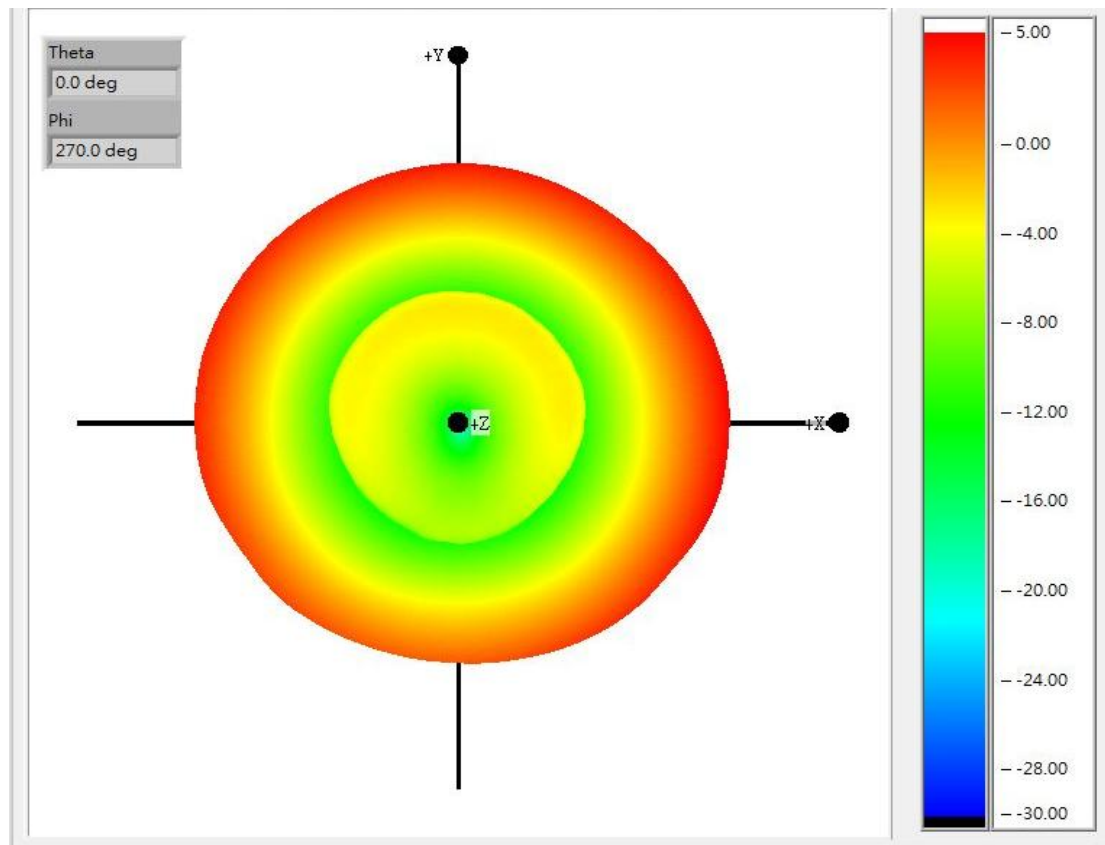


## 3D Radiation Pattern 5.55 GHz





## 3D Radiation Pattern 5.875 GHz





**Connector**

**SMA**

Electrical Properties	Impedance	50 ohm
	Frequency Range	0~6 GHz
	V.S.W.R	$\leq 1.5$
	Working Voltage	$\leq 170V_{rms}$
	Dielectric Withstanding	$\leq 500 V_{rms}$
	Voltage Insulation Resistance	$\geq 2000$ Megohms
	Contact Resistance	Center contact: 3.0 Milliohms (Max.) Outer contact: 2.0 Milliohms (Max.)
	Recommended coupling nut torque	4.0 in. lbs. ~ 8.8in. lbs.
	Coupling nut retention force	$\geq 60$ lbs.
	Contact captivation axial	$\geq 6$ lbs.
	Coupling Proof Torque	15 in-1lbs.min

Operating Temperature	-65°C ~ +165°C
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Material Specifications	Material Data	Material
	Body	Brass
	Center Contact	Brass
	Insulator	Teflon



線材規格

CABLE SPECIFICATION

SPECIFICATION: RG178 CABLE		CONSTRUCTION D.W.G	
ITEM	SPECIFICATION		
CONDUCTOR	MATERIAL	Silverplated Copper coated steel Wire	
	Composition(No./mm)	7/0.102	
INSULATION	NOM.O.D	0.306±0.03	
	Material	FEP(Natural)/PTFE	
	Nom. Thick.(mm)	0.275	
BRAIDING	NOM.O.D	0.88±0.03	
	MATERIAL	Silver-coated annealed copper wire	
JACKET	Composition	16*3/0.1; Coverage ≥ 90%	
	MATERIAL	FEP(*color)	
	Nom. Thick(mm)	0.25	
	Nom. O.D(mm)	1.78±0.05	
	Color	Brown	
<b>Electrical Properties(at 20 °C)</b>			
Item	Unit	Details	
Conductor Resistance	Ω/km	Max.800	
Insulation Resistance	MΩ.km	Min.500	
Dielectric Strength	V(AC)/min	1000	
Capacitance	pF/m	105(1kHz)	
<b>REMARK</b>			
Characteristic Impedance		Ω	50±2.0
Attenuation	dB/m	1GHZ	1.70
		2GHZ	2.42
		3GHZ	3.08
		4GHZ	3.63
		5GHZ	4.15
6GHZ	4.80		
Temperature range	°C	-55~150	
Standing wave(0-6GHz)	/	≦ 1.35	
<b>MASTER WAVE TECHNOLOGY CO., LTD.</b>			
CHECKED	DATE	Charlene	2013/8/8
DRAWING	REV		01

